EPSON° EMP-7850

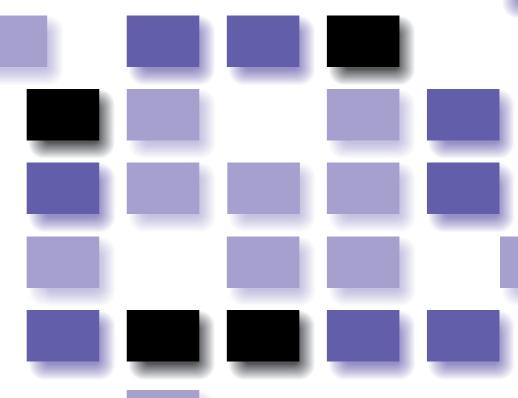
Setup
Connections
Projection preparation and adjustments
Turning the projector off
Functions for Enhancing Projection
List of configuration setting menus1
Troubleshooting12
Replacing the Lamp1
List of Supported Monitor Displays Inside cove

Be sure to read the User's Guide carefully before using the projector.

WARNING

Do not look directly into the projector's lens.

Quick Reference Guide



Setup

Set up the projector so that the distance from the screen to the projector's lens is 77–1113 cm. The shorter the distance between the two, the smaller will be the images, and the greater the distance, the larger will be the images. Adjust the distance in accordance with the size of the screen. If using an optional lens, refer to the documentation for the lens.

User's Guide
"Screen Size and
Projection Distance"

Connections

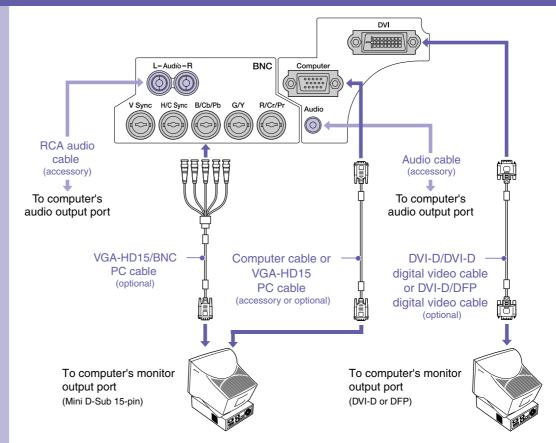
Be sure to turn the power for all components off before making any of the following connections.

User's Guide "Connecting to a Computer" "Connecting to a Video Source"

Connecting to a computer

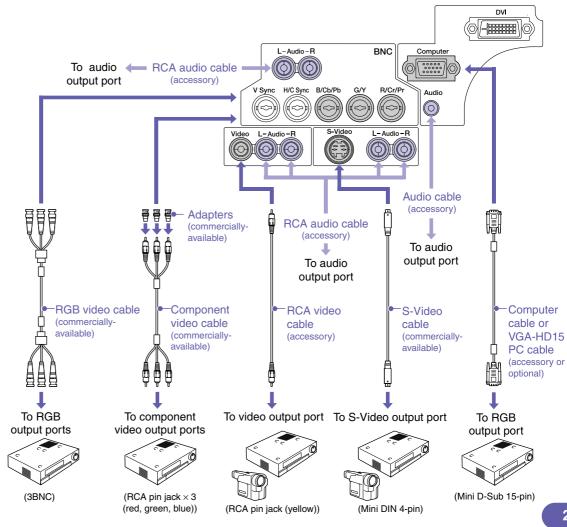
The [Audio] port to use is the port that is in the same box as the port being used to input the video signals.

If the source is connected to the [Computer] port or [DVI] port, the audio signals will be output according to the "Computer/DVI Audio Input" setting in the "Audio" menu.



Connecting to video equipment

The [Audio] port to use is the port that is in the same box as the port being used to input the video signals.



Projection preparation and adjustments

User's Guide "Turning the Projector On"

Set the [R/C] switch to "ON".

Turn the power on for all input equipment.

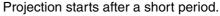
Press the button.





Check that the power cable is connected to the projector and to the electrical outlet.

For a video source, press the [Play] button.



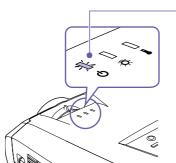
(Operation) indicator

Flashes green (warm-up in progress/approx. 40 seconds)

→ Lights green (projection in progress)

If "Password Protect" has been enabled, the "Password Protect Release" screen will be displayed when the power is turned on for the first time after the power plug is connected to an electrical outlet. Type in the password.

User's Guide "Preventing theft (Password Protect)"

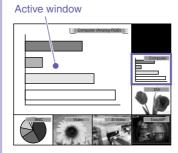


Select the images to be projected.

- If only one signal source is connected, images from that source will be projected automatically.
- If more than one device is connected to the projector, use the [Source] button to select the image source to be projected.

If using the comp or BNC buttons to select the source, you can change the signal setting by pressing the button repeatedly.

To select images to be projected while viewing all images being input. (Preview Function)



Preview 1. Press the button.

> The image can be changed directly by selecting the desired image source with the [Source] button.

2. To view the images in more detail, switch to the active window.

Tilt the button to select an image and then press the button.



3. Project the images in the active window.

Press the Enter button.

User's Guide "Selecting an Image Source While Viewing Projected Images (Preview Function)"

If the source does not change to the laptop PC connected by a computer cable.



Examples of changing output						
NEC	Fn + F3					
Panasonic	+ 23					
TOSHIBA	Fn + F5					
IBM	Fn + F7					
SONY	+ 22					
FUJITSU	Fn + F10					
Macintosh	After startup, change the Control Panel adjustments so that mirroring is active					

You may need to change the output destination using the keyboard or by changing settings.

To change, hold down the Fn key and press the Fo key (with a symbol such as \bigcap or \bigcap on it).

Once the setting is changed, projection will start after a short period.

Computer documentation

If images are still not projected after carrying out the above, see p.12.

Adjusting projected images

Adjusting the projection angle



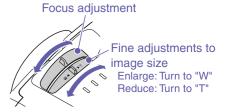
Foot adjust lever

While pulling the foot adjust lever, lift up the front of the projector so that the front adjustable foot can extend. The Auto Keystone function will operate when the projector is tilted.

To retract the front adjustable foot, gently push down on the projector while pulling the foot adjust lever.

User's Guide
"Adjusting the Feets"

Adjusting the image size and focus



User's Guide "Zoom Function"
"Focus Adjustment"

•If tilted horizontally, adjust using the left and right rear adjustable feet.



- If the height of the image is too short after Auto Keystone is carried out, adjust the height as follows.
 For adjustment using the configuration menus: "Setting" - "Keystone" - "H/V-Keystone" - "Height"
 - User's Guide "Height Correction"

Fitting the image size to the projection screen (Quick Corner)



The four corners of the image can be adjusted so that the image fits the screen exactly. This cannot be used together with Auto Keystone.

1. Press the button.

Select "Quick Corner" from the "Keystone" sub-menu of the "Setting" menu.

2. Select the corner to be adjusted.

Press the Enter button.

3. Adjust the corner to the desired position.

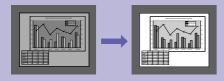
Tilt the button.

Once the adjustment is complete, press the button.

User's Guide

"Correcting Keystone Distortion so that the Projection Area Fits the Screen Exactly (Quick Corner)"

If projecting onto a blackboard or wall



■ Wall Shot

Images can be automatically corrected and projected without loss of original colour onto surfaces which are not white. In addition, the tints can be adjusted in accordance with the brightness of the room.



- Press the button.

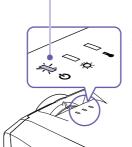
 The current status is displayed on the screen.
- 2. Press the button while the status is displayed to change it to "Wall Shot ON".

When the projector's power is turned off, images will be projected next time with the status set to "Wall Shot OFF". If projecting in the same location as before, press the $\frac{\text{Wall Shot}}{4}$ button twice, you can project images using the previous adjustment values without needing to repeat the measurements. The status will change in the order "Wall Shot OFF" \rightarrow "Wall Shot ON" \rightarrow "Wall Shot Memory Call" each time the $\frac{\text{Wall Shot}}{4}$ button is pressed.

Turning the projector off

User's Guide "Turning the Projector Off"

- Turn the power off for the equipment that is connected to the projector.
- Press the button twice to turn the power off.
- Set the [R/C] switch to "OFF".



(Operation) indicator

Flashes orange* (cool-down in progress/approx. 30 seconds)

 $\rightarrow \text{Lights orange}$

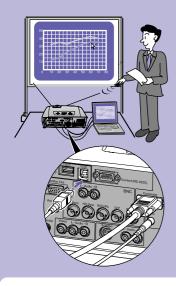
* Do not disconnect the power cable while the indicator is still flashing orange, otherwise it may result in errors in projector operation.

If the message "The projector is overheated. Clean or replace the air filter and lower the room temperature." appears during projection of images, press the power off and then clean or replace the air filters.

User's Guide "Cleaning the Air Filters and Air Intake Vent" "Replacing the Air Filters"

Functions for Enhancing Projection

Using the remote control for one-person presentations



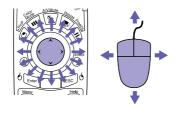
To use the wireless mouse function, you need to connect the computer using a USB cable in addition to the computer cable.

Use the accessory USB cable to connect the USB port of a computer to the projector's [USB TypeB] port.

■ Wireless Mouse Function

When projecting images from a computer, the accessory projector's remote control can be used to operate the computer's mouse pointer.

Moving the mouse pointer

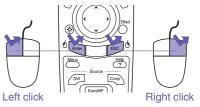


Drag and drop

- 1. Hold down the button for approx.
 - The button lights and drag and drop mode is enabled.
- 2. Tilt the button to drag an item.
- 3. Press the button to drop the item.

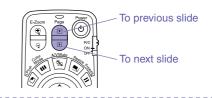
You can also drag and drop in the same way using the 6 button.

Mouse clicks



Double-click: Press twice in rapid succession.

Displaying previous or next slides in a PowerPoint slideshow



The wireless mouse function may not operate correctly depending on the computer version or function being used.

User's Guide

"Using the Remote Control to Operate the Mouse Pointer (Wireless Mouse Function)"

Enlarging parts of an image



■E-Zoom Function

This function lets you enlarge and reduce parts of images such as graphs and tables that you would like to view in greater detail.



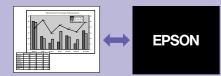
- 1. Press the 📵 button.
 - A cursor (cross) will appear on the screen.
- 2. Move the cross to the area of the image that is to be enlarged.
 - Tilt the button.
- 3. To enlarge: Press the 📵 button.

To reduce the enlarged area size: Press the button.

Press the button to cancel.

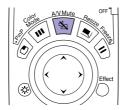
User's Guide "E-Zoom Function"

Momentarily turning off images and sound



■ A/V Mute Function

You can use this function when you do not wish to show details of operations such as selecting different files.



Press the button.

The images and sound are turned off (A/V mute active).

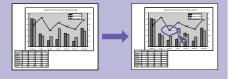
Press the button once more.

The A/V mute is cancelled.

User's Guide "A/V Mute Function"

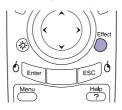
- If you use this function when projecting moving images, the images and sound will still
 continue to be played back by the source, and you cannot return to the point where the
 A/V mute function was activated.
- You can use the "A/V Mute" command in the "Setting" menu to set the screen appearance when the images and sound have been paused to "Black", "Blue" or "User's Logo".

Emphasising parts of an image



Effect Function

You can display a pointer icon and draw lines on the image being projected to emphasise parts of the image that you want to draw attention to.



Using the pointer icon

1. Press the button.

The pointer icon will appear.

The pointer type changes to one of three types each time the button is pressed.

2. The pointer icon moves when the button is tilted.



Drawing straight lines

- 1. Press the button. The pointer icon will appear.
- 2. Move the pointer icon to the starting point for the line.
- button to set the starting 3. Press the point.
- 4. Move the pointer icon to the ending point for the line and press the Enter button to draw the line.

Drawing freehand curves

- 1. Press the \(\bigcap \) button. The pointer icon will appear.
- 2. Move the pointer icon to the starting point for the line.
- 3. Press the button for approximately 1.5 seconds so that the button lights.
- 4. Tilt the button to move the pointer icon and draw the line.
- 5. When the ending point is reached, press the Enter button.

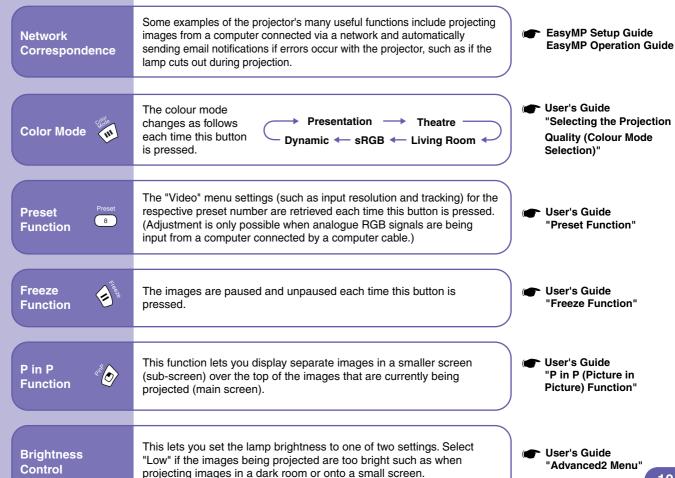


Press the button to clear effects. The pointer icon and lines will all be cleared.

User's Guide "Effect Function"

The type, size and movement speed of the pointer icon and the colours and thicknesses of the lines drawn can be set using the "Effect" menu.

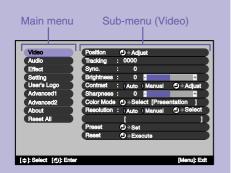
Other useful functions



User's Guide

Using the Configuration Menu Functions'

List of configuration setting menus



i setting menus			"Using the Configuration Menu Functions			
Video	During computer (analogue RGB) input	During computer (digital RGB) input or EasyMP	During component video (YCbCr or YPbPr) input	During S-Video or composite video input	During RGB video input	
0	Position Tracking Sync. Brightness Contrast Sharpness Color Mode Resolution Preset Reset	Brightness Contrast Sharpness Color Mode Reset	Position Brightness Contrast Color Tint Sharpness Color Mode Reset	Position Brightness Contrast Color Tint Sharpness Color Mode Video Signal Reset	Position Brightness Contrast Sharpness Color Mode Reset	
Audio	Computer/DVI Audio Input Volume Treble Bass Reset	Execute	b (an dig con	alogue RBG, co	uring S-Video or omposite video put	
Pointer/Line1		Startup Scr Progressive	een	EasyMP		

Pointer/Line1
Pointer/Line2
Pointer/Line3
Pointer Speed
Reset

Keystone
P in P
No-Signal Msg.
Message
A/V Mute
Computer Input
BNC Input
Sleep Mode
Reset

Progressive
Color Adjustment
Rear Proj.
Ceiling
Standby Mode
Language
Reset

Brightness Control
Projector ID
COM Port
Auto Setup
BNC Sync Termination
Reset

During computer
(analogue RBG,
digital RGB) /
component video
(YCbCr, YPbPr) /
RGB video input
or EasyMP

Lamp
Reset Lamp Timer
Source
Input Signal*
Frequency
SYNC Polarity
SYNC Mode
Resolution
Refresh Rate

Reset Execute

*Not displayed when running EasyMP.

If you cannot select images from a computer connected by a computer cable, or the images do not project correctly

If a problem occurs with the projected images even though the projector is set up and connected correctly, check the following points.

the projector back on.

If the following does not solve the problem

User's Guide "When the Indicators Provide No Help"

If the connection is made while the power is already turned on, the

Change the output setting to an external destination only or to an

Computer documentation, under a title such as

"External output" or "Connecting an external monitor"

external destination as well as the computer's own monitor.

function [Fn] key that switches the computer's video signal to external

output may not work. Turn the power for the connected computer and



The computer cannot be selected as the image source

Was the projector and computer connected while their power was already turned on?

Is the computer display output set to only the computer's accessory screen?

Do the input signal settings match the projector settings?

(When connected to the [BNC] port)

Do the input signal settings match the projector settings? (When connected to the [BNC] port)

Repeatedly press the BNC button on the remote control or use the "BNC Input" command in the "Setting" menu to select the format that matches the equipment signal.

Repeatedly press the BNC button on the remote control or use the "BNC Input" command in the "Setting" menu to select the format that matches the equipment signal.

The image signals need to be output to the projector.



Only part of the image is displayed Only part of the images are projected

Images appear

greenish or purplish

Has the computer been set for dual display?

Cancel the dual display setting in the connected computer's Control Panel.

Computer documentation, under a title such as "Video driver"

Using the help function

If a problem occurs with the projector, the Help function uses on-screen displays to assist you in solving the problem.

Press the button and answer the questions that are displayed to proceed through the help screens. User's Guide "Using the Help"

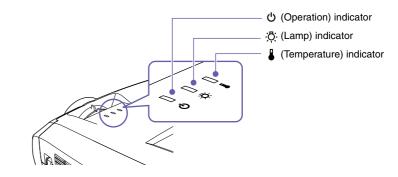
Reading the Indicators

The projector is provided with indicators to notify you of the operating status of the projector.

The following tables show what the indicators mean and how to remedy the problems that they indicate.

User's Guide

"Reading the Indicators"



If the () indicator is flashing or lit red

Problem/Warning





Internal error

Red Red Ö: 1

Fan related error/ Sensor error



Disconnect the power cable from the electrical outlet.

Then contact your dealer or the nearest address provided in the "International Warranty Conditions" section of the Safety Instructions/World Wide Warranty Terms booklet.



Lamp cover is open error./ Lamp timer failure/Lamp out



Check if the lamp is broken.

Disconnect the power plug from the electrical outlet and wait for the lamp to cool down sufficiently (takes about one hour) before checking.

User's Guide "Replacing the Lamp"

If the lamp is not broken

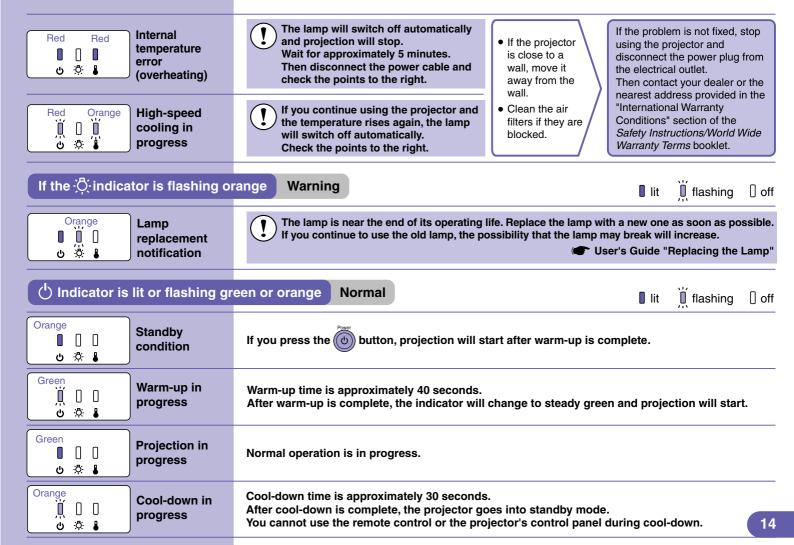
Replace the lamp and then turn the power on.

If the lamp still does not turn on, replace it with a new lamp.

If the problem is still not solved after the lamp is replaced, stop using the projector and disconnect the power cable from the electrical outlet. Then contact your dealer or the nearest address provided in the "International Warranty Conditions" section of the Safety Instructions/World Wide Warranty Terms booklet.

If the lamp is broken

Contact your local dealer for further advice.



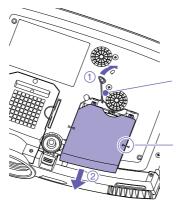
Replacing the Lamp

How to replace the lamp

You will need the provided accessory screwdriver or another flathead screwdriver.

- Disconnect the power cable.
- 2 Remove the lamp cover from the underside of the projector.

Turn off the power, wait for the cool down period to end (about 30 seconds) then disconnect the power cable.

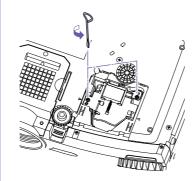


Remove the cover when the projector has sufficiently cooled down. It takes about a further one hour from when the cool down period has finished for the lamp to be cool enough.

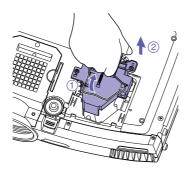
Insert the screwdriver into the opening.

Slide the lamp cover until the [\triangleright] and [\triangleleft] marks line up, then lift up the lamp cover to remove it.

Loosen the two lamp fixing screws.



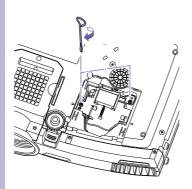
Lift the handle and pull out the old lamp.



If the lamp has broken, request a replacement lamp from EPSON, or the place of purchase.

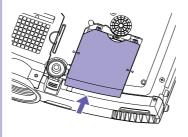
Safety Instructions/Worldwide Warranty Terms

5 Install the new lamp.



Holding the lamp facing the correct way, insert the lamp until it clicks into place then tighten the two fixing screws.

Install the lamp cover.



Slide the cover until it clicks into place.

- Install the lamp securely. If the lamp cover is removed, the lamp turns off automatically as a safety precaution. Moreover, the lamp will not turn on if the lamp or the lamp cover is not installed correctly.
- Dispose of used lamps properly in accordance with local regulations.

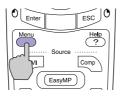
Resetting the Lamp Operating Time

After replacing the lamp, be sure to reset the Lamp Operating Time from the configuration menu.

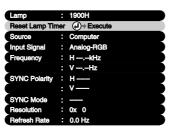
1 Press Menu .

Select "Yes" then press [].

Do not reset the Lamp Operating Time except after the lamp has been replaced. If you do, the Lamp Operating Time will no longer be displayed correctly.



The configuration menu is displayed.





The Lamp Operating Time is reset.

Signal	Refresh rate (Hz)	Resolution (dots)	Resolutions for resized display (dots)
VGAEGA		640 × 350	1024 × 560
VGA	60/72/75/85/100/120, iMac*1	640×480	1024 × 768
SVGA	56/60/72/75/85/100/120, iMac*1	800 × 600	1024 × 768
XGA	60/70/75/85/100/120, iMac*1	1024×768	1024 × 768
SXGA	70/75/85/100	1152 × 864*2	1024 × 768
SXGA		1280 × 960*2	1024 × 768
SAGA	60/75/85	1280 × 1024*2	960 × 768
SXGA+	60/75/85	1400 × 1050*2	1024 × 768
UXGA	60/65/70/75/80/85	1600 × 1200*2	1024 × 768
MAC13"		640 × 480	1024 × 768
MAC16"		832 × 624	1024 × 768
MAC19"		1024×768	1024 × 768
MAC21"		1152 × 870*2	1016 × 768
SDTV (525i,525p,625i,625p)			1024 × 768 (4:3 aspect ratio) 1024 × 576 (16:9 aspect ratio)
HDTV(750p)			1024 × 576
HDTV(1125i,1125p)			1024 × 576

^{*1} Connection is not possible if the equipment does not have a VGA output port.

However, not all functions may be supportable with such signals.





^{*2} The resolution for real display is the virtual (window) display resolution. It may be possible to project signals which are not listed in the above table.